USMC Network Design Facility

Network Description Documentation

NANO0004A

Prepared by:

USMC Network Design Facility
Marine Corps Tactical Systems Support Activity

15 February 2001

WARNING WARNING WARNING

Warning: Modification of this network by unauthorized
personnel is in violation of the
CJCSI 6232.021A (01 JUN 1998) on Deconfliction

NANO0004A
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

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Executive Summary

Network:	NANO0004A		Created for: Adriatic Area of Operation		
Use Limitations:	IPF OVERRIDE = 100/50				
Participants:	USMC Platforms	USN Platforms	USA Platforms	USAF Platforms	UK Platforms
	1 JTAOM	Refer to Navy Master Document. See note below.	Refer to Navy Master Document. See note below.	Refer to Navy Master Document. See note below.	Refer to Navy Master Document. See note below.
Operational Summary:	Highest Platform TSDF = 95.58% (with relays and voice)				
Send comments and Recommendations to:			USMC Network Design Facility Attn: AD-09 (MCNDF) Box 555171 Camp Pendleton, CA 92055-5171 E-mail: mcndf@mctssa.usmc.mil Website: http://www.mctssa.usmc.mil Telephone: DSN 365-2796/2133 COMM (760) 725-2796/2133		

Note:
        Please refer to the Navy Document (NANO004A.PDF) for this network. It is located on the MC-JNL-2001-x CD, the Navy JNL 200 CD, the Marine Corps Network Design Facility Website located at http://www.mctssa.usmc.mil, or the Navy Network Design Facility Website located at https://www.nctsi.navy.mil.

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Introduction

Network NANO0004A was created by the Navy to support NATO activity in the Adriatic area of operation. Specifically, this network seeks to provide a primary JTIDS/Link16 'backbone' for data exchange and to provide constituted loads for the increased number of platforms deployed into theater. It has one Marine Corps platform, JTAOM (1).

Purpose

The purpose of this document is to describe the Marine Corps platforms in Network NANO0004A. It was created to allow initialization and communications of tactical data between all participating units. This documentation and appropriate loading data is being delivered to the appropriate Marine Corps units.

Notes

1. The network's **IPF Override** is set to **1 - 100/50**, the **TSDF** is set to **100/50**, the **Communications Mode** is set to **Mode 1**, the **TDMA Range** is **300 nmi**, the **TSEC** is set to **1**, and the **MSEC** is set to **1.**

2. 2.4 Kbps and 16 Kbps JTIDS Voice will be available.

3. **JICO oversees all responsibility in managing the network TSDF, NTS, and Relay assignments.**

4. Platform **TAOM (1)** is platform **JTAOM (1).**

1.0   Functional Description

This network was developed for NATO in the Adriatic area of operations.

1.1   Operational Summary

1. 100/50 with 2.4 Kbps and 16 Kbps JTIDS Voice.
2. View this document in coordination with the Navy document for Network NANO0004A.

1.2   Use Limitations

1. IPF Override = 100/50
2. 2.4 Kbps and 16 Kbps JTIDS Voice.

2.0   USMC Platform

JTAOM (1)

2.1 Network Participation Groups

For NPG Assignments, refer to the Navy master document for this network. JTAOM (1) is participant number 19 on the connectivity matrix.

Appendix A
NDL FILE NAME TABLE

MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

NDL File Name Table

Network Platform Name	File Name/Network Used By Host System
Marine Corps Platforms	
JTAOM(1)	TAOM1_31.PF

Appendix B

SHORT FORM REPORT FOR JTAOM (1)

MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

Participant JTAOM (1)

Participant	Block ID Number	Slot Type	Msg Cat	Total Slots Req'd	Slots Blocks Req'd	Slot Group A=Agg	Slot Group Elem.	Set	Index	RRN	Net	Relay Delay
JTAOM(1)	1	T	3	8	8	1.1	0	A	32	9	0	0
	2	T	6	1	1	2.1	19	B	144	6	0	0
	3	T	12	112	64	70.1	0	C	1	12	127	0
	4	T	12		32	70.2	0	C	5	11	127	0
	5	T	12		16	70.3	0	C	13	10	127	0
	6	T	29	32	32	72.1	0	B	8	11	0	0
	7	R	6	32	32	2.1	0	B	0	11	0	0
	8	R	6	32	32	4.1	0	A	8	11	0	0
	9	R	6	32	32	5.1	0	A	12	11	0	0
	10	R	7	32	32	8.1	0	A	9	11	0	0
	11	R	8	4	4	11.1	0	A	17	8	0	0
	12	R	10	4	4	14.1	0	A	49	8	1	0
	13	R	7	16	16	17.1	0	A	11	10	0	0
	14	R	8	4	4	20.1	0	A	27	8	0	0
	15	R	7	4	4	23.1	0	A	91	8	0	0
	16	R	7	48	32	24.1	0	C	0	11	0	0
	17	R	7		16	24.2	0	A	26	10	0	0
	18	R	7	48	32	25.1	0	C	2	11	0	0
	19	R	7		16	25.2	0	A	30	10	0	0
	20	R	8	4	4	26.1	0	C	8	8	0	6
	21	R	10	4	4	28.1	0	C	72	8	0	6
	22	R	7	8	8	30.1	0	C	24	9	0	0
	23	R	7	8	8	31.1	0	C	26	9	0	0
	24	R	10	8	8	32.1	0	C	56	9	0	6
	25	R	7	16	8	35.1	0	C	14	9	0	0
	26	R	7		4	35.2	0	C	46	8	0	0
	27	R	7		4	35.3	0	A	81	8	0	0
	28	R	8	4	4	37.1	0	C	110	8	0	0
	29	R	7	32	16	39.1	0	A	3	10	0	0
	30	R	7		16	39.2	0	C	31	10	0	0
	31	R	8	8	4	41.1	0	A	78	8	0	0
	32	R	8		4	41.2	0	B	121	8	0	0
	33	R	10	8	8	43.1	0	C	42	9	0	0
	34	R	7	48	32	45.1	0	B	4	11	0	0
	35	R	7		16	45.2	0	B	12	10	0	0
	36	R	7	48	32	46.1	0	B	6	11	0	0
	37	R	7		16	46.2	0	B	14	10	0	0
	38	R	8	4	4	48.1	0	B	28	8	0	0
	39	R	8	4	4	49.1	0	A	31	8	0	0
	40	R	10	4	4	51.1	0	B	92	8	0	0
	41	R	10	4	4	52.1	0	A	95	8	0	0
	42	R	7	8	8	53.1	0	C	28	9	0	0
	43	R	7	8	8	54.1	0	C	30	9	0	0
	44	R	10	8	8	55.1	0	C	60	9	0	6
	45	R	7	16	16	57.1	0	C	4	10	0	0
	46	R	7	16	16	58.1	0	C	6	10	0	0
	47	R	7	16	16	59.1	0	C	20	10	0	0
	48	R	7	16	16	60.1	0	C	22	10	0	0
	49	R	7	72	32	62.1	0	B	3	11	0	0

Participant JTAOM (1) Cont'd

Participant	Block ID Number	Slot Type	Msg Cat	Total Slots Req'd	Slots Blocks Req'd	Slot Group A=Agg	Slot Group Elem.	Set	Index	RRN	Net	Relay Delay
	50	R	7		16	62.2	0	B	7	10	0	0
	51	R	7		8	62.3	0	B	25	9	0	0
	52	R	7		8	62.4	0	A	16	9	0	0
	53	R	7		4	62.5	0	B	57	8	0	0
	54	R	7		4	62.6	0	A	110	8	0	0
	55	R	7	72	32	63.1	0	B	5	11	0	0
	56	R	7		16	63.2	0	B	9	10	0	0
	57	R	7		8	63.3	0	B	30	9	0	0
	58	R	7		8	63.4	0	A	19	9	0	0
	59	R	7		4	63.5	0	B	62	8	0	0
	60	R	7		4	63.6	0	A	113	8	0	0
	61	R	8	32	32	65.1	0	B	13	11	0	0
	62	R	10	16	8	68.1	0	B	60	9	0	0
	63	R	10		8	68.2	0	A	55	9	0	0
	64	Y	14	8	8	74.1	0	A	45	9	0	9